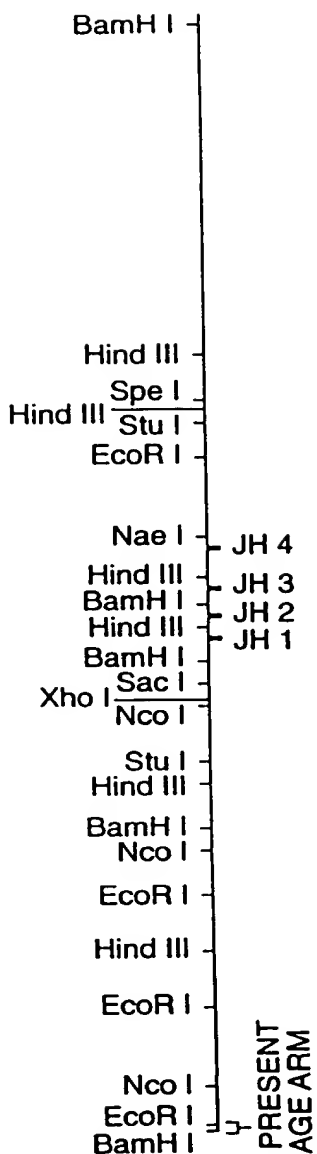


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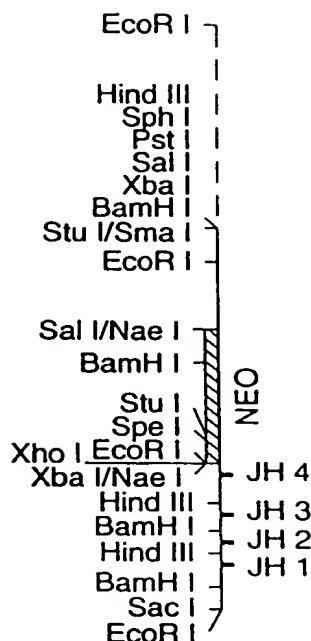
MOUSE HEAVY CHAIN TARGETING VECTOR



A) GENOMIC J_H LOCUS

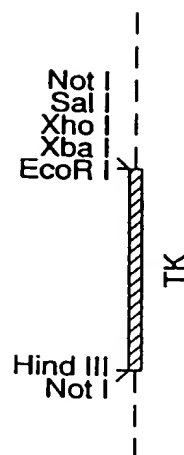
SITES PRESENT
IN PHAGE ARM

FIG. 21A



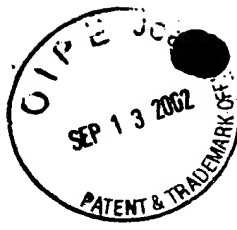
B) puc18 J_H - NEO

FIG. 21B

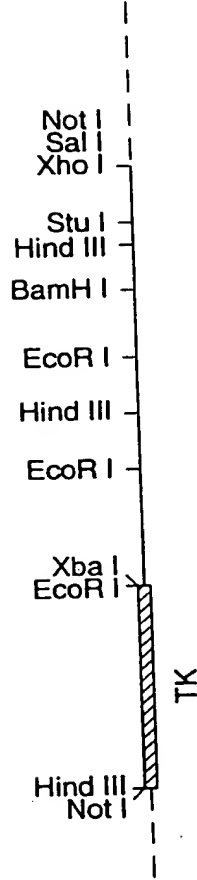


C) pGMT-TK

FIG. 21C

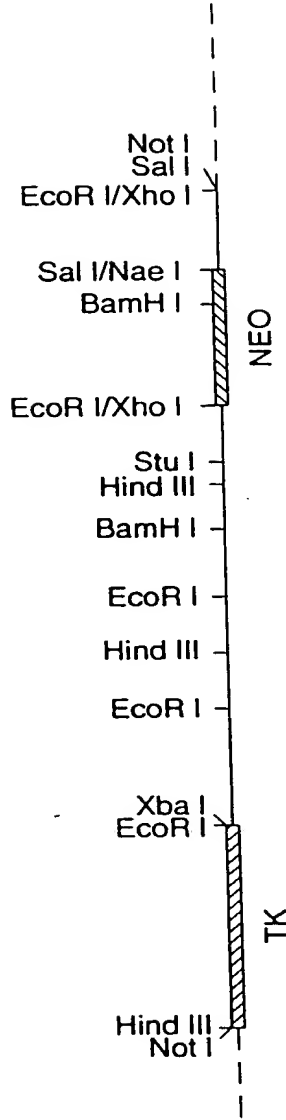


MOUSE HEAVY CHAIN TARGETING VECTOR



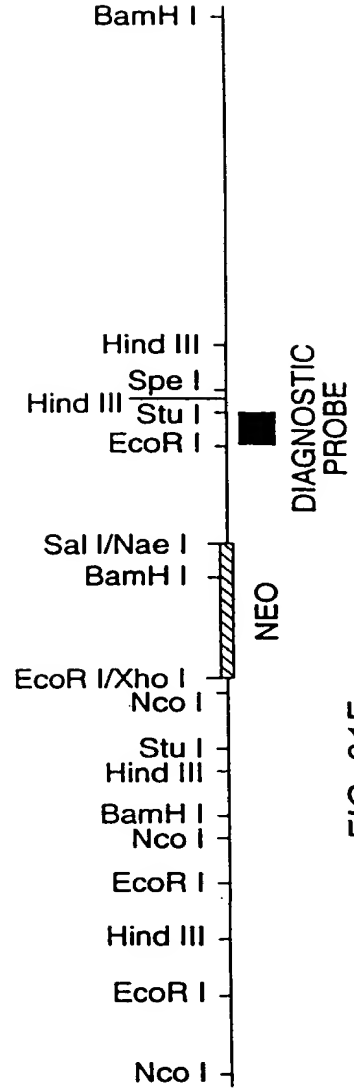
D) pGMT-TK-JH5'

FIG. 21D



E) J_HK01

FIG. 21E



F) TARGETED J_H LOCUS

FIG. 21F